UNCLA
SSIFIED

COMMON SENSE FORCE PROTECTION APPROACH

TO
WATER SECURITY

COL RON TORGERSON, USAF (RET.), PE, **FELLOW, SAME**

WAR: "A SERIOUS MEANS TO A SERIOUS END," CLAUSEWITZ

FEDERAL
SOLUTIONS

Versar INC.

OVERVIEW

- **THREAT**
- **WHAT IS FORCE PROTECTION/SECURITY ASSURANCE**
- **RESPONSIBILITIES**
- **THREAT ASSESSMENT**
- **WHAT IS A VULNERABILITY ASSESSMENT**
- **FORCE PROTECTION STRATEGIES**
- **WHAT'S IMPORTANT & MITIGATION**
- **RISK MANAGEMENT & REDUCTION**
- **SUMMARY**

Versar INC.

UNCLA
SSIFIED

THREAT IS REAL

WANTED

UP TO $25M REWARD

"To defeat your enemy, you first Must know him," Sun Tzu

"…we will kill 4 million Americans, including 1 million children…"
Osama bin Laden

Diplomatic Security Service

FEDERAL
SOLUTIONS

Versar INC.

THREAT

- **VERY REAL: TIC'S/TIM'S A GOOD CHOICE/BIOLOGICAL**
- **ROME AND THE MOROCCAN TERRORISTS: 20 FEB 02**
  - **TARGETING AMEMBASSY ROME VIA UTILITY TUNNELS**
  - **WITH CYANIDE, 2 SQUARE MILE AREA AROUND AMEMBASSY**
- **TRANSIENT IN CHICAGO: CYANIDE, CHICAGO & MILWAUKEE: 12 MAR 02; MEXICAN THEFT**
- **CAVES OF AFGHANISTAN: TARGET US WTP'S**
- **NEXT ATTACK, WHEN??? CYANIDE OR OTHER**
- **CHAIRMAN, JOINT CHIEFS OF STAFF:**
  - **NATIONS & GROUPS WISHING US ILL→**
    - **ONLY CHANCE TO IMPOSE WILL ON US IS THROUGH SOMETHING OTHER THAN CONVENTIONAL MEANS**
  - **TERRORISM HIGH ON MENU OF OPTIONS & EFFECTIVE TOOL**
- **UNPREDICTABLE AND WILL CHANGE OVER TIME**

Versar INC.

THREAT—KNOW YOUR ENEMY

- **GOAL: DESTROY SECULAR WESTERN CULTURE**
- **REPLACE SECULAR GOVTS WITH ISLAMIC GOVT**
  - **SALAFIS—PERFECT MUSLIM FORM OF LIFE 1300 YEARS AGO**
  - **SADDAM HUSSEIN ALSO SECULAR: MONGOL AGGRESSORS/BAGHDAD**
  - **PRESIDENT ASSAD'S OFFICE: CRUSADERS/MOORS**
- **bin LADEN: AMERICANS ARE CRUSADERS**
  - **KILLING AMERICANS IS DUTY OF EVERY MUSLIM**
  - **BLAMES AMERICA AND ISRAEL FOR ALL ILLS IN MIDDLE EAST**
  - **WTC I&II ARE JUST THE START**
  - **MARTYRS: SINS ARE ERASED AND GO TO HEAVEN; FAMILY PENSION**
- **1919 BELFOUR DOCUMENT: DIVIDED OTTOMAN**
- **MANCHESTER DOCUMENT: www.usdoj.gov**
  - **BLUEPRINT AND MANUAL FOR al QAEDA: A MUST READ!!!**

THREAT—MANCHESTER DOCUMENT

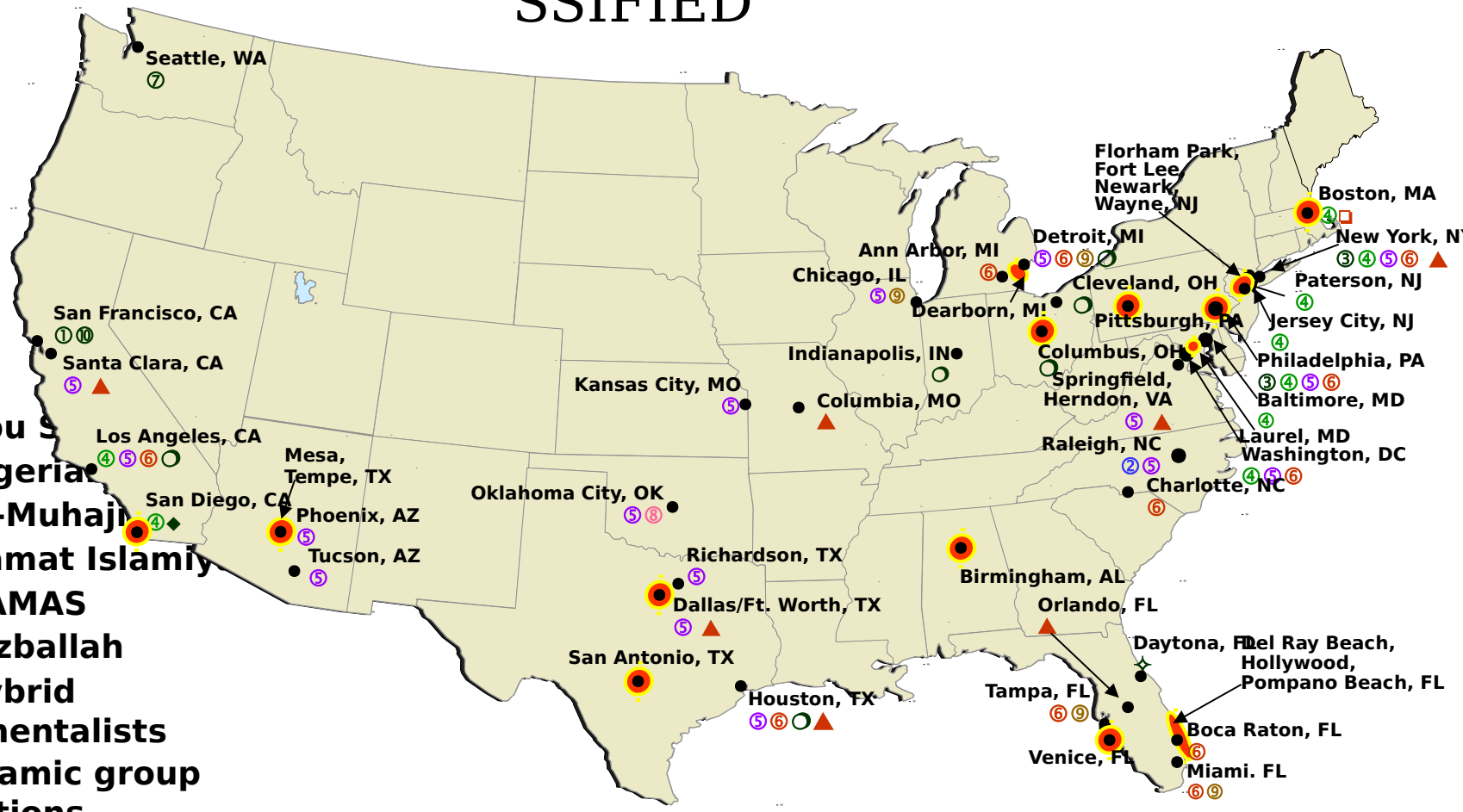
- **OVERTHROW GODLESS REGIMES: ISLAMIC REGIME**
  - **INTELLIGENCE GATHERING**
  - **KIDNAPPING ENEMY PERSONNEL, DOCUMENTS, & ARMS**
  - **ASSASSINATING ENEMY PERSONNEL AS WELL AS TOURISTS**
  - **FREEING CAPTURED BROTHERS**
  - **SPREADING RUMORS TO INSTIGATE PEOPLE**
  - **BLAST AND DESTROY EMBASSIES AND VITAL ECONOMIC CENTERS**
  - **BLAST PLACES OF AMUSEMENT, IMMORALITY & SIN—NOT VITAL TARGET**
  - **BLASTING AND DESTROYING BRIDGES LEADING IN AND OUT OF CITIES**

SWORD OF MUHAMMAD

- **MUST READ**
  - **SWORD OF THE PROPHET, SERGE TRIFKOVIC**
- **"…the sword of Muhammad and the Qur'an are the most fatal enemies of civilization (Western), liberty, and truth which the world has yet known…hatred of non-Muslims is pivot of Islamic existence…." William Muir (Orientalist)**
- **"…most virulent form of Muslim extremism owes its growth to shortsighted US foreign policy…" USAMEB James Bissett, 2002**
- **"In Islam there is no separation of church and state…way of life…total surrender to Allah…" USAMEB Bissett**

- **20M IN W. EUROPE; 3-5M IN US LOYALTY/CITIZENSHIP???**

UNCLA
SSIFIED



① Abu S
② Algeria
③ Al-Muhaji
④ Gamat Islamiy
⑤ HAMAS
⑥ Hizballah
⑦ Hybrid Fundamentalists
⑧ Islamic group conventions
⑨ Islamic Jihad
⑩ Islamic Liberation Party
Muslim Brotherhood
National Islamic Front

New Fundamentalist Group
Usama bin Ladin
The American Islamic Group

Areas associated with WTC/Pentagon Attackers
Locations Associated with Islamic Militant Groups

FEDERAL
SOLUTIONS

Versar INC.

WHAT IS FORCE PROTECTION?

- **SECURITY ASSURANCE PROGRAM: TERMED "SECURITY" BY WATER AUTHORITIES**
- **SECURITY ISN'T LAW ENFORCEMENT**
- **PROTECT ASSETS: PERSONNEL, CITIZENRY, & EQUIPMENT**
- **ALL LOCATIONS & SITUATIONS**
- **PLANNED, INTEGRATED APPLICATIONS FOR COMBATING TERRORISM**
- **INCLUDES**
  - **PHYSICAL & OPERATIONAL SECURITY**
  - **PERSONAL PROTECTIVE SERVICES**
  - **SUPPORTED BY INTELLIGENCE, COUNTERINTELLIGENCE & OTHER SECURITY PROGRAMS**
- **GOAL: MINIMIZE LOSS OF LIFE AND OTHER CRITICAL ASSETS**
- **NUMBER ONE PRIORITY IS KEEPING ASSETS SAFE**
- **REGARDLESS OF MEASURES IMPLEMENTED, RISK PRESENT**

RESPONSIBILITIES

- **FORCE PROTECTION IS SENIOR LEADERSHIP'S RESPONSIBILITY**
  - **PLANNING**
  - **PROGRAMMING**
  - **EXECUTION**
- **RESULTANT ACTIONS TAKEN CONSISTENT WITH SENIOR LEADERSHIP'S DECISIONS**
- **FORCE PROTECTION MUST BE ESSENTIAL PART OF PLANNING AND DESIGN PROCESS**
- **ESSENTIAL IN OPERATIONS, MAINTENANCE AND TRAINING**
- **PROHIBIT VEHICLES & INHIBIT VISITORS**

THREAT ASSESSMENT (TA)

- **ONE OF FIRST STEPS IN AT/FP PROGRAM**
- **ONCE UNDERSTAND THREAT**
  - **ASSESS FACILITIES ABILITY TO SURVIVE ATTACK**
- **TA DEFINES PARAMETERS UPON WHICH PROTECTIVE SYSTEMS ARE BASED**
- **INTELLIGENCE GATHERING: FBI AND STATE BUREAUS OF INVESTIGATION**
  - **DIFFERENT MINDSET THAN LAW ENFORCEMENT**
- **THREAT IDENTIFICATION**
  - **AGGRESSORS**
  - **TOOLS, WEAPONS, AND EXPLOSIVES**
  - **TACTICS**
- **THREAT DEFINITION: EXISTENCE, CAPABILITY, I INTENTIONS, TARGETING, & SECURITY ENVIRON**

THREAT ASSESSMENT (TA)

- **THREAT LEVELS: HOMELAND SECURITY**
- **GREEN=LOW**
  - **CHECK FACILITIES FOR VULNERABILITY TO TERRORIST ATTACK; TRAIN PERSONNEL**
- **BLUE=GUARDED**
  - **REVIEW EMERGENCY RESPONSE PROCEDURES; GIVE PUBLIC INFORMATION**
- **YELLOW=ELEVATED**
  - **INCREASE SURVEILLANCE OF CRITICAL LOCATIONS; IMPLEMENT CONTINGENCY AND EMERGENCY PLANS**
- **ORANGE=HIGH**
  - **COORDINATE SECURITY WITH ARMED FORCES; RESTRICT ACCESS TO THREATENED SITES; TAKE ADDITIONAL PRECAUTIONS AT PUBLIC EVENTS**
- **RED=SEVERE**
  - **CLOSE PUBLIC AND GOVERNMENT FACILITIES; MONITOR OR CLOSE AIRPORTS, INCREASE OR REDIRECT EMERGENCY PERSONNEL**

THREAT ASSESSMENT (TA): FPCON

- **TERRORIST FORCE PROTECTION CONDITIONS: DOD**
  - **NORMAL: GENERAL THREAT; ROUTINE SECURITY POSTURE**
  - **ALPHA: GENERAL THREAT OF POSSIBLE TERRORIST ACTIVITY AGAINST PERSONNEL & FACILITIES**
  - **BRAVO: INCREASED, MORE PREDICTABLE THREAT OF TERRORIST ACTIVITY--NO TARGET PARTICULAR IDENTIFIED**
  - **CHARLIE: INCIDENT OCCURRED OR INTELLIGENCE RECEIVED INDICATING SOME FORM OF TERRORIST ACTION IMMINENT**
  - **DELTA: APPLIES IN IMMEDIATE AREA WHERE ATTACK OCCURRED OR INTELLIGENCE INDICATES ATTACK LIKELY**

VULNERABILITY ASSESSMENT

- **ADDRESSES SUSCEPTIBILITY TO ATTACK AND RANGE OF PHYSICAL THREATS**
- **DRIVES ANTITERRORISM [DEFENSIVE] MEASURES**
- **KHOBAR TOWERS, USS COLE DROVE & 9-11**
- **ASSISTS SENIOR LEADERSHIP**
- **HELPS OBTAIN SECURITY GRANTS**
- **PROTECTS THE FORCE: PEOPLE & PRIORITY RESOUR**
- **EMERGENCY RESPONSE PLANS--RESPONSE**
- **PRACTICE, PRACTICE, PRACTICE**
- **LAW ENFORCEMENT PREPLANNING AND EXECUTION**
- **CAN BE DONE BY EXPERIENCED CONTRACTORS, DOD, OR TRAINED IN-HOUSE STAFF**
- **SANDIA NL RAM-W℠ LICENSED TRAINERS**

SANDIA RAM-W^{SM} VULNERABILITY ASSESSMENT

Sandia National Laboratories

- **METHODOLOGY FOR VA**
- **WILL NOT PROVIDE THREAT DEFINITION—PROVIDES DESIGN BASIS THREAT**
- **LOGICAL APPROACH TO ASSESSING WATER TREATMENT PLANTS**
- **17 ORGANIZATIONS TRAINED**
- **BROWN AND CALDWELL/VERSAR TEAM HOLDS A LICENSE FOR THE TRAINING**

FORCE PROTECTION STRATEGIES

- **ANTITERRORISM CONSTRUCTION STANDARDS**
  - **MODIFICATIONS AT MAJOR RENOVATION**
  - **STANDOFF DISTANCES, GLASS, CMU'S, LANDSCAPIN**
- **PLANNING OR PROGRAMMING ACTIONS**
  - **CONSTRUCTION PROJECTS**
- **CHANGE: LAND USE, TRAFFIC FLOW, ENT CONTROL, & FACILITY IMPROVEMENTS??**
- **SCENARIOS UNDERGO SUITABILITY ANALYSIS**
- **LIMITING CONDITIONS: $, PHYSICAL & POLITICAL FACTORS**
- **THEN PICK PREFERRED FP MEASURES**

Versar INC.

WHAT'S IMPORTANT

- **CRITICAL FACILITIES**
- **GLASS, <15% GLAZED, LAMINATED, FRF**
- **FACILITY (INGRESS/EGRESS) & PARKING STANDOFF**
- **GATES; LOCKS; NON DESCRIPT SIGNAGE**
- **PERIMETER: POROUS OR NOT**
- **DELIVERIES: COURIERS, CHEMICALS, MAIL**
- **CHEMICAL STORAGE; DISTRIBUTION FACILITIES; LABS**
- **POLICIES AND PROCEEDURES: PPS AND OS**
- **HARDENING WTP & DISTRIBUTION SYSTEM**
- **COMMUNICATIONS & IS DECENTRALIZATION**
- **STANDOFF=YOUR BEST FRIEND**
- **STORAGE TANKS, VENTS, FENCING**
- **BACKGROUND INVESTIGATIONS**

Versar INC.

MITIGATION

- **GLASS: SINGLE PANED, ANNEALED**
  - **HOW MUCH?**
  - **FRF?**
  - **LAMINATED?**
- **BARRIERS**
  - **JERSEY, f(FPCON)**
  - **LANDSCAPING**
  - **TRAFFIC FLOW**
- **STANDOFF: CUMULATIVE EFFECTS**
- **PERIMETER: SECURE OR POROUS? ENTRY CONTROL?**
- **KNOW WHO COMES AND GOES**
- **BEST MANAGEMENT PRACTICES**
  - **DISGRUNTLED EMPLOYEES???**
- **GOAL: INHIBIT VISITORS AND PROHIBIT VEHICLES**

WHY ME?

- **EPA GRANT PROGRAM**
- **PROVIDES GRANTS FOR CITIES DOWN TO 3.3K IN POPULATION**
- **6 MONTHS TO COMPLETE VA AFTER GRANT RECEIVED OR THE END OF 2003**

RISK MANAGEMENT & MITIGATION

- **LIMITED RESOURCES: RISK MANAGEMENT**
- **WHAT'S IMPORTANT TO SENIOR LEADERSHIP?**
- **PRIORITIZE & COORDINATE WITH STAKEHOLDERS**
- **CAN ONLY COVER ALL THREATS IF HAVE UNLIMITED RESOURCES**
- **HAVE TO ACCEPT SOME LEVEL OF PREDETERMINED RISK**

SUMMARY

- **US IS VULNERABLE TO TERRORIST ATTACK**
- **AMERICANS HAVE SHORT MEMORIES**
- **SECOND ATTACK WHEN IT COMES WILL HEIGHTEN INTEREST IN AT/FP**
- **INCUMBENT ON ALL OF US TO EXERCISE FP**
- **APPROACH THREAT LOGICALLY THROUGH THE DESCRIBED PROCESS**
- **MANAGE RISK**

"...NO GOVERNMENTAL RESPONSIBILITY IS MORE FUNDAMENTAL THAN PROTECTING THE PHYSICAL SAFETY OF OUR NATION AND OUR CITIZENS"
PRESIDENT G.W. BUSH, 8 MAY 01

UNCLA
SSIFIED

FEDERAL
SOLUTIONS

Versar INC.